

Galena Technical Project Team Meeting #7
Galena Air Force Base Administration Bldg. Conference Room
January 12-15, 2004

Summary Comments

In Attendance:

TPT Members

Eleanor Yatlin	Louden Tribe
Marvin Yoder	City of Galena
Steve Wicks	Galena Schools
Dave Hertzog	Air Force (AF)
Ann Farris/Greg Light	Department of Environmental Conservation (DEC)
Phil Koontz	Louden Tribe
JoAnn Grady	Facilitator

Support Personnel

Lindsay Smith	DEC
Manish Joshi	EarthTech
Bill DiGuseppi	EarthTech
Ron Porter	Mitretek
Patrick Haas	Mitretek
Lance Raymore	Air Force Center for Environmental Excellence (AFCEE)
Krista Graham	Oasis Environmental
Lisa Nicholson	Oasis Environmental
Nate Oberlee	Oasis Environmental

Invited Guests

Pat Sweetsir	Louden Tribe
Tyg Skywatcher	Louden Tribe

Technical Project Team (TPT) Review of the Galena and Campion Contaminated Sites Summaries.

The technical project team met in Galena the week of January 12th to review available data assembled by the AF on each contaminated site. The following are summary comments and recommendations made by the team on each site. These recommendations will be incorporated into the Draft Final RI/FS report or the appropriate decision document. The Draft Final RI/FS Work Plan is being prepared and will be presented to the TPT and the public for formal comment.

Recommendations

AOC1 – Birchwood Hangar

- Air Force (AF) will prepare a No Further Action (NFA) technical memo on this site to present to the Department of Environmental Conservation (DEC).
- Summarize historical usage which was dominantly non-industrial.
- Outline land use controls strategy to be protective of potential contamination under slab during future construction.

POL Fuel Line Leak

- Present missing PAH data in report.
- Identify potential complete pathways at site.
- Prepare a site closure decision document for submission to DEC.
- Include this site in a “Call Before You Dig” document in the Base Plan.

FT001 – Fire Training Area

- This site will be included in the RI/FS.
- Conduct groundwater monitoring (Monitoring Well (MW)-01,05,07,08R) in June and October, 2004.
- Evaluate hydrologic data in the area to determine if there are preferential flow paths or high flow rates through the area. Summarize this data in the RI/FS Report.
- Prepare a decision document for site closure pending results of groundwater sampling. Closure is recommended with soil capping, re-grading to prevent ponding, and revegetation. The team also recommended land use controls including long term groundwater monitoring for a specific number of years if the 2004 ground water concentrations are of concern.

ST0100- Southeast Runway Fuel Spill (SERFS)

- This site will be included in the RI/FS.
- Present missing SVOC data results for soils and groundwater.
- Review historical photographs/drawings to determine barrel dump, building and tar pit locations.
- Perform groundwater monitoring for DRO, and BTEX in June and October. Future sampling requirements will be determined based on the sampling results.
- Pursue Institutional Controls (ICs) for soil and long term monitoring, or, NFA for groundwater (based on 2004 groundwater sampling results)
- Perform a site walk to determine areas of exposed drums and tar. Determine further actions based on the results of the site walk.

SS004, JP-4 Fuel Truck Spill

- This site was previously closed by the DEC in a letter dated October 19, 1988. The letter will be documented and included in the Work Plans.

ST007-Campion –POL Area

- This site will be included in the RI/FS.
- Measure free product monthly, collect compositional information annually.
- Evaluate product removal methods, baildown testing, etc. if sufficient quantities are present.
- Groundwater sampling, sediment or soil or surface water (look to see if all analytes were done, sampling grid/locations)
- Biopile-look for additional information on conformational sampling, Milcon reports. Additional sampling may be needed at this site.
- Evaluate remedial alternatives in the RI/FS.

SS009-Campion Road Oiling Site

- Capture historic information and soil sample information on this site in an NFA decision document. Include information in the decision document regarding typical PAH levels along roads.

CS001 – Contaminated Sediment/DDT Soils

- Incorporate the contaminated soil in Tank 37 into the CC001-Million Gallon Hill decision document.
- Incorporated the contaminated soil that was treated in the biopile at Campion in the Campion POL Area decision document.
- Incorporate the details of the soil removal and post-removal sampling at the Vehicle Maintenance Facility (VMF) into the JP-4 fillstands decision document.
- Review tank closure report on Building 1572 from 1999 Army Corps of Engineers closure document. Include this document in the decision document.

SS002-Campion - Waste Accumulation Area 1

SS003-Campion - Waste Accumulation Area 2

OT006-Campion - White Alice

SS008-Campion Barge Landing

- These sites were previously closed by the DEC in a letter dated October 19, 1988. The letter will be documented and included in the draft RI/FS.

LF004-Campion - Landfill 1

LF005-Campion - Landfill 2

- The ADEC's Solid Waste files will be searched for further information on these sites. DEC will report on these two sites at the next TPT meeting.

SS005 – Wilderness Hall

- This site will be included in the RI/FS

- Collect soil gas samples from the vapor monitoring points list and the bioventing wells for field analyses prior to start up and for the first week of operations.
- Operate bioventing well (05-SV-06) in extraction mode (SVE) for 12 months and measure oxygen radius of influence after 60 days of operation.
- Evaluate stack sampling requirements based on initial emissions.
- Outline decision criteria for system shut down.
- Collect ground water samples from 05-SV-06 for VOC's, GRO, and DRO before and after completion of remedial activities.

CB001 - GAVTC Soil Vapor Extraction System (SVE)

- This site will be included in the RI/FS
- Quarterly samples taken to date show that faculty and staff are protected while occupying the building. The TPT requested this information be documented in the recommendations/comments for this site which will be presented in the RI Work Plan.
- AF will submit the final GAVTC Sampling and Analysis Plan.(SAP)

SVE 30 day test results.

The TPT was presented with the results from the SVE system currently operating at the GAVTC building. The following recommendations were made regarding the test:

- Continue to operate the GAVTC sub slab decompression system.
- Operate the SVE 3 venting well as part of system #2 through break up (6-12 months @20-25 cfm)
- Conduct monthly effluent vapor sampling for field instrument screening.
- Collect SUMMA canister samples at startup and after 7 months for lab analysis.
- Define a prescribed operational regime and submit to the TPT in the form of a letter.
- Verify compliance with safe breathing and zone concentrations (using Screen3 model) and total emissions as per Owner Requested Limit requirements.
- Based on the SVE 3 results, the AF will operate the remaining SVE system while being protective of local populations.
- A letter will be completed by the AF with two appendices including the above recommendations and requesting approval from ADEC to operate the SVE system for the 6-12 month study. The appendices will include: (1) a straight-forward description of how to operate the system safely including defined operating ranges for air flow rate and acceptable emission concentrations: and, (2) a document with the results of the SCREEN3 modeling efforts and the total emission calculations that were used to define the safe operating procedures and parameter ranges. The SVE well will not be operated until ADEC has given written approval.

POL Tank Farm

- This site will be addressed in the RI/FS Work Plans. The following data will be included in the RI/FS Report:

- Soil
 - Bioventing respiration testing
 - Radius of influence (ROI) testing on bioventing system
 - Operating and monitoring details of the bioventing system
 - Feasibility Study to screen alternatives for soil treatment.
 - VMP Monitoring
- Groundwater:
 - Groundwater monitoring including down gradient wells. Evaluate remedial alternatives for groundwater and soil.
 - BTEX and monitored natural attenuation (MNA) parameters
 - Free product measurements and potential baildown testing
 - Compositional analysis of product
- North POL
 - This site will be closed. Its inclusion in ST-005 POL area will be discussed in the RI Work Plans.

SS002 – Control Tower Drum Storage Area (CTDSA) / SS013 - CTDSA South

- Review historical photos for drum locations and fuel lines.
- Check if monitoring well (MW)-38 still exists
- Review Department of Transportation (DOT) plans for tarmac expansion, soil excavation, building footprint and soil disposal procedures. Create figure of contaminated areas.
- Present information in the RI Work Plan.

TU001 Power Plant 49

- Incorporate details of Tank # 49 removal into an NFA decision document.
- Find and review documentation regarding the tank and contaminated soil removal and present any confirmation samples showing the site remediation. If none can be verified, implement a “call before you dig” land use control.

JP4 Fillstands

- This site will be addressed in the RI/FS
- Conduct ground water sampling (BTEX, DRO) under RI (1572-MW-03, 1572-MW-04, 10-MW-03, 09-MW-18, 09-MW-27, 09-MW-19) in June and October 2004.
- Prepare a decision document based on land use controls and future long term monitoring.
 - Long term monitoring based on ground water results
 - Removal action if determined appropriate.

Building 1845

- This site will be addressed in the RI/FS Work Plans.
- Research TCE source (review historical data: State of Alaska, Federal Aviation Administration (FAA), and Agency for Toxic Substance and Disease Registry (ATSDR) report)

- Check survey and identify Remedial Process Optimization (RPO) report microwells and redraw plume map
- Continue ground water monitoring (06-MW-01, 06-MW-02, 06-MW-03, 06-MW-05, 06-MW-06, 10-MW-01 and all 4 wells), VOCs, Metals (only in multi-depth wells to resolve barium issue)
- Present all data in the Remedial Investigation (RI) Work Plan and Report
- Continue monthly VOC monitoring at water plant
- Evaluate remedial options for ground water in the Feasibility Study
- Prepare a decision document with contingencies for appearances in drinking water well.

CG001/CG002 – Million Gallon Hill /Missile Storage Area

- This site will be included in the RI/FS Work Plans.
- Obtain free product measurements, baildown testing
- Continue the operation of the bioventing systems, verify oxygen radius of influence (ROI) for new wells
- Conduct respiration testing of new bioventing wells
- Conduct ground water sampling in June and October (sentry wells, leading edge) (09-MW-08, 09, 10, 03, 04, 05, 11, 21, 28, 01, 12, 22, 15)
- Perform a focused evaluation of remedial alternatives for ground water, then write a decision document:
 - operate bioventing
 - free product measurement
 - sample wells
 - remedial timeframe
 - exit strategy (Focused Feasibility Study (FFS) to provide the targets)

Risk Assessment Discussion

Krista Graham and Eleanor Yatlin led a discussion on the process being followed to prepare the risk assessment (RA). Their plan includes:

- A response to comments generated from the original 1996 RA and a re evaluation of the document based on those comments. Significant issues gleaned from comments include:
 - Out of date guidance used to prepare the RA.
 - Issues regarding the quality of data used.
 - Fate and transport was not evaluated in the document
 - Indoor air was not investigated
 - Dust inhalation was not investigated
- Preparation of an updated RA investigating pathways and receptors in the Galena and Campion area. Eleanor Yatlin explained that a substantial amount of information was gathered through community interviews. The new information will be considered in the development of conceptual site models and evaluated in the updated RA.

Historical Groundwater Data Usability Assessment

The TPT reviewed a presentation of the historical groundwater data usability assessment. The report concluded that the quality of historic data is considered to be adequate.

Recommendations on the assessment are as follows:

- Future groundwater sampling and analysis should be conducted in a manner consistent with historical procedures.
- Future sampling locations, frequency, and analytical parameters should be evaluated on a site specific basis annually.

Background Study

The TPT reviewed a presentation evaluating background studies conducted in the Galena area. Identified concerns regarding the use of background criteria include:

- Statewide or regional USGS values were used
- The galena ambient location may not be appropriate
- Upper tolerance limits were inappropriately used for comparison.

After lengthy discussion the TPT concluded that further discussions between the DEC and the AF will need to be held to determine an agreed upon ambient location to use as background criteria. The DEC will review the AF recommendations on background criteria and report their findings to the TPT at their March meeting.

RI/FS Schedule Review

The AF presented the following work plan schedule, documentation summary, pre-spring work summary, investigative work summary and remedial work summary to the TPT:

Work Plan Schedule:

- Work Plans to be completed in February
- Submit Draft Final Work Plan to the TPT for a 30 day review period.
- Receive and review comments at the March TPT meeting.
- Submit Responsiveness Summary
- April/May: Resubmit Final Work Plans
- Begin Field work in June.

Documentation Summary:

- Prepare letter to DEC with revised modeling and field Standard Operating Procedures (SOPs).
- Submit GAVTC Sampling Analysis Plan (SAP) Final
- Prepare No Action Decision Documents for
 - Power Plant Tank 49
 - Road Oiling
 - POL Fuel Line Leak
- Prepare a Technical Memo for AOC1-Birchwood Hangar

Work Summary (Pre-Spring):

- Complete 30-day test on SVE-5
- Continue to collect quarterly GAVTC indoor air samples
- Continue to collect monthly free product measurements, baildown tests as needed
- Continue to collect drinking water monthly
- Continue to collect data logger water levels
- Collect one set of water levels at winter low water (March/April)

Investigative Work Summary (June)

- Install any additional wells identified as necessary in plans/surveys
- Collect site-wide water level measurements
- Collect groundwater data (June and October)
- Collect one set of water levels at Spring break-up
- Use surveyor to check/find/label wells.

Remedial Work Summary (June)

- Operate SVE at SVE 3 (GAVTC) after approval from ADEC.
- Respiration testing on new bio-venting wells
- Perform operation and maintenance on Million Gallon Hill/Missile Storage Area bioventing systems
- Start POL Tank Farm bioventing system

Next TPT Meeting:

The TPT will meet in Fairbanks, March 2-3, 2004, beginning at 8:00 A.M. at the offices of the Department of Environmental Conservation.